SELECTED REFERENCES

All information derived from water well records on file with the Ontario Ministry of the Environment up to the end of 1976.

Cartography by B. Fischer and D. Bonner.

Base map derived from 1:50,000 sheets of the National Topographic series.

METRIC CONVERSION FACTORS

1 foot	=	0.3048 metre
1 gallon per minute	=	4.546 litres per minute
1 gallon per minute per foot	=	14.90 litres per minute per metre

LEGEND

- Overburden well
- Flowing well in overburden
- Municipal well in overburden
- 7201 / 27 — Overburden well number / Specific capacity of overburden well (gpm/ft of drawdown)
- Bedrock well
- Flowing well in bedrock
- Municipal or public water supply well in bedrock
- MOE test hole in bedrock
- 1588 / 17 — Bedrock well number / Specific capacity of bedrock well (gpm/ft of drawdown)

NA — not available

The specific capacity of a well is calculated by dividing the pumping test rate (gpm) given in the driller's well log by the drawdown (feet) as the result of pumping. The probable yield of a well can be approximated by multiplying the specific capacity by the estimated available drawdown. For example a well in an area where the specific capacities range from 0.1 to 1 gpm/ft may yield 2 to 20 gpm where the available drawdown is 20 feet.

NOTES

Hydrogeologic information has been derived from logs of selected water wells shown on this map. In areas of high well densities, some wells have been omitted from the map. A high density of wells occurs in the western part of the basin and generally a low density exists in the central part of Russell County and throughout most of Prescott County.

Most wells in the basin are drilled to bedrock and supply individual domestic requirements. Specific capacities of water wells are generally low (less than 1 gpm per foot of drawdown), except in areas along the western boundary where specific capacities are generally greater than 1 gpm per foot. Specific capacities along the southeastern boundary in Prescott and Stormont counties are generally less than 0.1 gpm per foot of drawdown.

In Cambridge, North Plantagenet and South Plantagenet townships there are a large number of bored wells (not shown) which are not reported in the water well records and for which specific capacities are not available.

Because of the generally low specific capacities of most wells in the basin, probable yields to individual wells are correspondingly low. Yields of 2-3 gpm from both overburden and bedrock wells are common, although yields from overburden tend to be slightly higher than from bedrock.

Ontario
MINISTRY OF THE ENVIRONMENT
Water Resources Branch
Hydrology and Monitoring Section

WATER RESOURCES REPORT 13

WATER RESOURCES OF THE SOUTH NATION RIVER BASIN

Sheet 2

LOCATIONS AND SPECIFIC CAPACITIES OF WATER WELLS

Scale 1:100,000

1 inch equals 1.58 miles

1 ½ 0 1 2 3 4 5 6 7 Miles

1 0 1 2 3 4 5 6 7 8 9 10 Kilometres

MAP 2198